

**ABSTRACT OF THE DISCLOSURE**

A storage device includes a storage medium and a probe having a tip and a first plate. The tip of the probe is adapted to form a dent in the storage medium to represent a state of a data bit. The storage device also includes a second plate, where the first plate and second plate cooperate to form a variable capacitance that varies  
5 between different capacitance values depending on whether the tip of the probe is engaged in the dent.